Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-03-08-14** **Date: 12-03-2018**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-2018

Sample ID No : 2018-03-08-14 /01

Sample Type : ACC 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 09-03-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	278.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	178 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-08-14** **Date: 10-03-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-03-2018
Sample ID No	:	2018-03-08-14 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	482	482	3.2	96.8	90-100
3	20 mm	5784	6266	41.8	58.2	30-70
4	10 mm	6198	12464	83.1	16.9	10-35
5	4.75 mm	2277	14741	98.3	1.7	0-5
6	Pan	259	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-08-14** **Date: 10-03-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-2018
Sample ID No	:	2018-03-08-14 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	242	242	4.8	95.2	90-100
3	10 mm	2185	2427	48.5	51.5	25-55
4	4.75 mm	2388	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-08-14** **Date: 10-03-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000119/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-2018
Sample ID No	:	2018-03-08-14 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-03-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	522	632	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	655	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	565	672	19.0%	Satisfactory	Satisfactory

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-13-04** **Date: 17/03/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at ISSRO layout in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000119/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-2018

Sample ID No : 2018-03-13-04 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	10/03/2018	17/03/2018	150.23 X 150.44 X 150.35	22601	8.205	411.3	18.2	18.2
2	Drain Concrete	M20	10/03/2018	17/03/2018	149.63 X 151.34 X 150.74	22645	8.243	405.3	17.9	
3	Drain Concrete	M20	10/03/2018	17/03/2018	149.72 X 151.72 X 150.36	22716	8.175	420.2	18.5	

Note:

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